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<150> 60/547,256

<151> 2004-02-23

<160> 52

<170> PatentIn version 3.3

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<210> 10

<211> 1999

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 10

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tctctctttc	taatataata	attctcttgc	attttctatt	tttctctcta	tctattctac	1920
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cgaactataa ttaactaaa

1999

<210> 11
<211> 2001
<212> DNA
<213> *Saccharomyces cerevisiae*

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atthttggata actctthtga cattgatttg attgtthttca tcgctattht cgctgatgth 180
gctactthtgg ctattgctta cgataatgct ccttactctc caaagcccgt taaatggaac 240
ctaccaagat tatggggtat gtctattatt ttgggcatag thtttagctat aggttctthg 300
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<210> 12
 <211> 2000
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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tcctcgtttc	cagctacggt
cggtttggca	tctttgtcgc
180	
gaacgtcaaa	ataagctaac
gttgtctggc	ccaaagaaat
gaatttatat	gcagatcttt
240	
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ttgatagagt	cgccaaaatg
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tttattacgt	gtatattacc
ggattcatcg	cctattaaaa
360	
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gcgcataatt	tcgtaaatgt
atcatttttt	ttctcttcag
420	
aattaaacag	tgagcttaag
tttacctttt	tgacgacttt
gccggtcata	gtattggcct
480	
tttttaaaac	attatccgat
ccaacagaaa	aaatattgtc
acctttagaa	tcaaagcaca
540	
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tgtcttttag	tcttccaaag
tgtttttacg	cccaagtctt
600	
catcttttcc	tgtttgcttt
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atcaacaaat	ttcaaattct
660	
cagtttctag	gtctatatct
aatctaatac	aagggcatac
acctttcttt	gcattccttg
720	
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ctacgtctac	gatctagggt
cgattgcaac	ttagcggggg
780	
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tgctcctgtac	caaagccagt
tattataatg	ggcagttcag
840	
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atgggagcct	ttaatgatag
taattctaga	atgggcaggt
900	
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gttttttttt	tgctctttgc
catagctgat	gcgtggattg
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tgatgccatg	atttctatgt
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aatttttttt	ttctagcgag
aaaaaaaatc	agaaaaatta
1080	
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cattgtcaat	gggagatggt
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attcatccac	aatcttgtca
gcaagtgaat	ctcttaattg
1200	
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ctctttgata	ttgggttggt
cttcttatgg	cttccacgaa
1260	

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ctttttat	ttatcatcat	ttcacgtggc	tagtaaaaga	aaagccacaa	catgactcag	1860
caaatctcga	caaagtaaaa	gctcatagag	atagtattat	attgatataa	aaaaagtata	1920
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<210> 13
 <211> 2001
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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agtaacaatt	tgcttattcg
ttgatgatat	gatattattc
	120
agcaaagact	taaatgcaaa
taagaaaatc	ataacaacac
tcaagaaaca	atacgataca
	180
aagataataa	atctgggtga
aagtgataac	gaaattcagt
acgacatact	tggattagag
	240
atcaaataatc	aaagaagcaa
gtacatgaaa	ttaggtatgg
aaaaatcctt	gacagaaaaa
	300
ttacccaaac	taaacgtacc
tttgaaccca	aaaggaaaga
aacttagagc	tccaggtcaa
	360
ccaggtcatt	atatagacca
ggatgaacta	gaaatagatg
aagatgaata	caaagagaaa
	420
gtacatgaaa	tgcaaaagtt
gattgggtcta	gcttcatatg
ttggatataa	atttagat
	480
gacttactat	actacatcaa
cacattgctc	aaccatatac
tattccctc	taggcaagtt
	540
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aatacaattc	atgtgggaca
ctagagataa	acaattaata
	600
tggcacaaaa	acaaacctac
caagccagat	aataaactag
tcgcaataag	cgatgcttca
	660
tatggtaacc	aaccatatta
caagtcacaa	attggtaaca
ttttctact	caacggaaaa
	720
gtgattggag	gaaagtcgac
aaaggcttcg	ttaacatgca
cttcaactac	agaagcagaa
	780
atacacgcgg	tcagtgaagc
tattccgcta	ttgaataacc
tcagtcacct	tgtgcaagaa
	840
cttaacaaga	aaccaattat
taaaggctta	cttactgata
gtagatcaac	gatcagtata
	900

attaagtcta	caaataga	gaaatttaga	aacagatttt	ttggcacaaa	ggcaatgaga	960
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aatacttgaa	gttgacaata	ttatttaagg	acctattgtt	ttttccaata	ggtgggttagc	1920
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<210> 14
 <211> 2001
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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cttctgcatg	gtttccttga gaaaaatgag actcagcctc tgagattaac ttatccgtat 180
ccatttcaga	tctttgctat acgtttgtat cgctatatgt acgttctttt aatgaacttt 240
ctcctttctt	tatcgtgtag cttgcttggg tatcttttaa tgagttgcgg acagtgagat 300
ttttcagaag	ggcaattggc caagacacca aaaacgtttg gacgagacag gcatcaaagg 360
acaaggtaaa	aggcgttgag ctgtggctgg ctgtgtatgc gtttgaaata ccatggatag 420
atatcaaaga	aagataggat gtttcataca aatcccaaatt ttggggcgcg gacaactgaa 480
atacgtgggt	ccagtggaca cgaaagctgg aatgtttgct ggtgtagact tacttgccaa 540

cattggtaag aacgatggat cattcatggg gaagaagtat tttcaaacag agtatcctca	600
aagtggacta tttatccagt tgcaaaaagt cgcattcattg atcgagaagg catcgatatc	660
gcaaacctcg agaagaacga cgatggaacc gctatcaata cccaaaaaca gatctattgt	720
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tcaccatcaa cagcaagaat ttggttacga taacagagaa gacagaatgg aggtcgactc	900
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agagaaagag atagaccatc tcaagcaaca attggagctc gaacgcagac agcaagccaa	1200
acaaaagcag ttttttgacg ctgagaatga acagctactt gctgtcgtaa gccaaactaca	1260
cgaagagatc aaagaaaacg aagagagaaa tctttctcat aatcaacca ctggtgccaa	1320
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gctcagtaaa gaataccaaa atttgagcaa ggaactatct ttgacaaaac cacaagattc	1500
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gtgactcacg tttttttatc agtcattcga tatagaagg aagaaaagga tatgactatg	1860
aacagtagta tactgtgtat ataatagata tggaacgtta tattcacctc cgatgtgtgt	1920
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<210> 15
 <211> 2001
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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cacaagtgga ttttggtaac aataacgacg aggacgatat gaacctgttc gaccagatt	180

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 <213> *Saccharomyces cerevisiae*

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<210> 17
 <211> 2001
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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 <211> 1999
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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<210> 19

<211> 1999

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 19

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 <211> 1943
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 <213> *Saccharomyces cerevisiae*

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<210> 22
 <211> 2001
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 22							
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tgtgaaaaaa	aaaaaaaagg	attataaaaag	gtcagcgaag	cacagaactc	tgagataaga	1920
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<210> 23
 <211> 1999
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 23						
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gctthttagt	gatgtcatca	cacgtaaaacc	ggcggtagaa	gggaaagaat	ggaggatcat	300
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cctaataatta ttgccttatt aaaaatggaa tcccaacaat tatctcaaaa ttcccccaat	1560
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cacacataac atagaagcac acccagcaca ataaccacac gacaataacc acacccgccc	1980
acccctcctt tccgtatac	1999

<210> 24
 <211> 91
 <212> DNA
 <213> Glycine max

<400> 24	
aaawtcaaac gacaataact tttkactcgg atgtccgatt gwggtcccgta rtatatcgag	60
acgctcgwaa ttgaaaacwg aagctctrag m	91

<210> 25
 <211> 92
 <212> DNA
 <213> Glycine max

<400> 25	
aaattcaaact ggtcataact tttmacwcgg akgtccgatt caggcgcata atatatcgag	60
acgctcgaaa ttgaacaayg gaagctctcg ag	92

<210> 26
 <211> 91
 <212> DNA
 <213> Glycine max

<400> 26	
aaattcaaac gacaataact ttttactcgg atgtcygatt gagtcccgta atatatcgag	60
acgctcgaaa ttgaatrytg aagctctgag c	91

<210> 27

<211> 266
 <212> DNA
 <213> Brassica oleraceae

<220>
 <221> misc_feature
 <222> (38)..(38)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (242)..(242)
 <223> n = a, c, g, or t

<400> 27
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 tcactacctc cccgtgtcag gattgggtaa tttgcgcgcc tgctgccttc cttggatgtg 120
 gtagccgttt ctccaggctcc ctctccggaa tcgaacccta attctccgtc acccgttacc 180
 accatggtag gccactatcc taccatcgaa agttgatagg gcagaaattt gaatgatgcg 240
 tngccagcac taaggccatg cgatcg 266

<210> 28
 <211> 345
 <212> DNA
 <213> Brassica oleraceae

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (17)..(17)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (27)..(27)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (41)..(41)
 <223> n = a, c, g, or t

<400> 28
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 cttcttacia agtgattcat cctgggttga ttggaacgac gaacaagttg tgctattccc 180
 aaacttgga actggaatca cctgacttga aagtgggata acttcttcat cccaactcct 240
 atgagattta ttcaacttcc tggatgattct ccaccacttt atgtatccaa atcaagcttc 300

ttacaaagtg attcattctg gtttgtttgg aacgacgaag aagcg	345
<210> 29	
<211> 40	
<212> DNA	
<213> Artificial sequence	
<220>	
<223> Synthetic primer	
<400> 29	
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<210> 30	
<211> 41	
<212> DNA	
<213> Artificial sequence	
<220>	
<223> Synthetic primer	
<400> 30	
ggtggtcggc cgcaggttgc atatgaatct ttaactgaca g	41
<210> 31	
<211> 41	
<212> DNA	
<213> Artificial sequence	
<220>	
<223> Synthetic primer	
<400> 31	
ggtggtcggc cgcgagcaca agcggggccaa gcccattgctt g	41
<210> 32	
<211> 42	
<212> DNA	
<213> Artificial sequence	
<220>	
<223> Syntnthetic primer	
<400> 32	
ggtggtcggc cgtcaggttg catatgaatc ttttaactgac ag	42
<210> 33	
<211> 39	
<212> DNA	
<213> Artificial sequence	
<220>	
<223> Synthetic primer	
<400> 33	
ggtggtcggc cgtcgctcggc acttggcagc gaaatctcc	39

<210> 34
 <211> 42
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Synthetic primer

 <400> 34
 ggtggtcggc cgcattatca tataattatg ttttgctgct tc 42

 <210> 35
 <211> 38
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Synthetic primer

 <400> 35
 ggtggtcggc cgcgtcggca cttggcagcg aaatctcc 38

 <210> 36
 <211> 41
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Synthetic primer

 <400> 36
 ggtggtcggc cgattatcat ataattatgt tttgctgctt c 41

 <210> 37
 <211> 105
 <212> DNA
 <213> Lycopersicum

 <220>
 <221> misc_feature
 <222> (18)..(18)
 <223> n = a, c, g, or t

 <220>
 <221> misc_feature
 <222> (29)..(29)
 <223> n = a, c, g, or t

 <400> 37
 accaaatttg ttcgtggnac gtcctcaana cgttgtctat gcatacgggtt ggccatcacg 60
 gcctttccga cccatttgga aggtcaaacg aaccccgaag tgagc 105

 <210> 38
 <211> 105
 <212> DNA
 <213> Lycopersicum

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<220>
<221> misc_feature
<222> (40)..(40)
<223> n = a, c, g, or t

<400> 38
ggtttttctag gccgtttggg aaggtcaaac gagccccggn acgagcatac gcctcatttt 60
gacgatttttc gtgtgctatt gcacaccatt ttttgggtga tcgag 105

<210> 39
<211> 256
<212> DNA
<213> Lycopersicum

<400> 39
gtaacgacct gtttagtcgt tttgagcagc agattttatt tctggaaaaa caggctgaga 60
cgacggaaac cacgacggac cgtcatgggc acgacggacc gtcgaggggg tctcgttcca 120
aaacacttag aattctgaaa tttgggtact gaaatcgact ctctgaactt cgtgaagaag 180
tggcaggacg gaccgtcgtg ggcacgacgg accgtcacag gcccttcaat aatttcagtc 240
tctgaactct gtgacg 256

<210> 40
<211> 574
<212> DNA
<213> Plant Telomere probe

<400> 40
aggcgcgcca cctgcaggag agctcgggtct catcgagaca cagggttttag ggtttaggggt 60
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gtgagcccggt gtttaaaccgc ccgggcccgtc gacc 574

<210> 41
<211> 41
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic primer

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<400> 41
 aggcgcgccca cctgcaggag agctcggctct catcgagaca c 41

<210> 42
 <211> 34
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic primer

<400> 42
 ggtcgacggc ccgggcgttt aaacccgggc tcac 34

<210> 43
 <211> 155
 <212> DNA
 <213> Glycine max

<220>
 <221> misc_feature
 <222> (4)..(4)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (26)..(26)
 <223> n = a, c, g, or t

<400> 43
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 ttacgggact taatcagaca atcgagtaaa aagttattgt cgtttgaatt tgctcagagc 120
 ttctgttttc aattacgagc gtctcgatat attac 155

<210> 44
 <211> 167
 <212> DNA
 <213> Glycine max

<220>
 <221> misc_feature
 <222> (6)..(6)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (13)..(13)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (31)..(31)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature

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<222> (39)..(39)
<223> n = a, c, g, or t

<220>
<221> misc_feature
<222> (54)..(54)
<223> n = a, c, g, or t

<220>
<221> misc_feature
<222> (65)..(65)
<223> n = a, c, g, or t

<220>
<221> misc_feature
<222> (96)..(96)
<223> n = a, c, g, or t

<400> 44
gtccgnatca ggnccgataa tatatgcgag nacgctagna aattgaataa tggnaagcac      60
tcganaaaatt caaatgggtca taacttttcca cacggnaggt tagattcaag cgcataatat    120
atagagaagc tcgaaatata acaactaaag ctctcgcgaa attcaaa                    167

<210> 45
<211> 216
<212> DNA
<213> Glycine max

<220>
<221> misc_feature
<222> (34)..(34)
<223> n = a, c, g, or t

<400> 45
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gatgcctcag ctgcatacat cactgcactt ccacttgaca cctatcatta attagaaacg      180
gctcgtctcg ccgtgacctt ctcttgaatt ctcaaa                                216

<210> 46
<211> 605
<212> DNA
<213> Glycine max

<220>
<221> misc_feature
<222> (368)..(368)
<223> n = a, c, g, or t

<400> 46
ggtgttgggc ctttaaaaat gatcctttta acttggttaag aaaagctgag ataaaacttt      60
caaatctttt tttagtgatt ttttggtgga cgagcttgac ttggcgaatt gatttttagcc    120

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ttagtttcgc ttttagttatt agtcaattca attaagaatg ataaatccca aagagaaaat	180
gtccgattga tttttgtgct tcatttttact aaaagatatt cttttgatta ttatatattatt	240
attttacctc tttttttgat ttccaacgtg gttacggcac gaccgagcgg ttggaactcc	300
ttttaacaga aattaatgaa tactacaatt caaatgatcg atggaaattt attttatttt	360
tagattangc gcgaaatgac ttaaataaat gactgaagca tgtcaaaagg gggatatggaa	420
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tacgg	605

<210> 47
 <211> 24
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic probe

<400> 47	
tgaacggcca cgagttcgag atcg	24

<210> 48
 <211> 24
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic probe

<400> 48	
gtcctcgttg tgggaggtga tgtc	24

<210> 49
 <211> 24
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic probe

<400> 49	
ctgccactcc atttccttct cggc	24

<210> 50
 <211> 24
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic probe

<400> 50
acttatccgg tcctagatca tcag 24

<210> 51
<211> 176
<212> DNA
<213> Brassica oleraceae

<400> 51
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gagttggcat gaagaagtta tcccmctttc aaatcagggtg attccagttt cccagtttgg 120
gaatagcaca gcttcttcgt cgttccaatc aaaccaggat gaatctcttt gtaaga 176

<210> 52
<211> 176
<212> DNA
<213> Brassica oleraceae

<400> 52
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gagttaggat gaagaagtta tcccactttc aaataagggtg atcccagttt ycctgtttgg 120
gaatatgaca acttcttcgt cattctaatc aaaccaggat gaatckygat gtwaga 176